

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P588555

Luminaire Tested: **GAT-CA6-LED-90-750-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-90-750-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8902 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

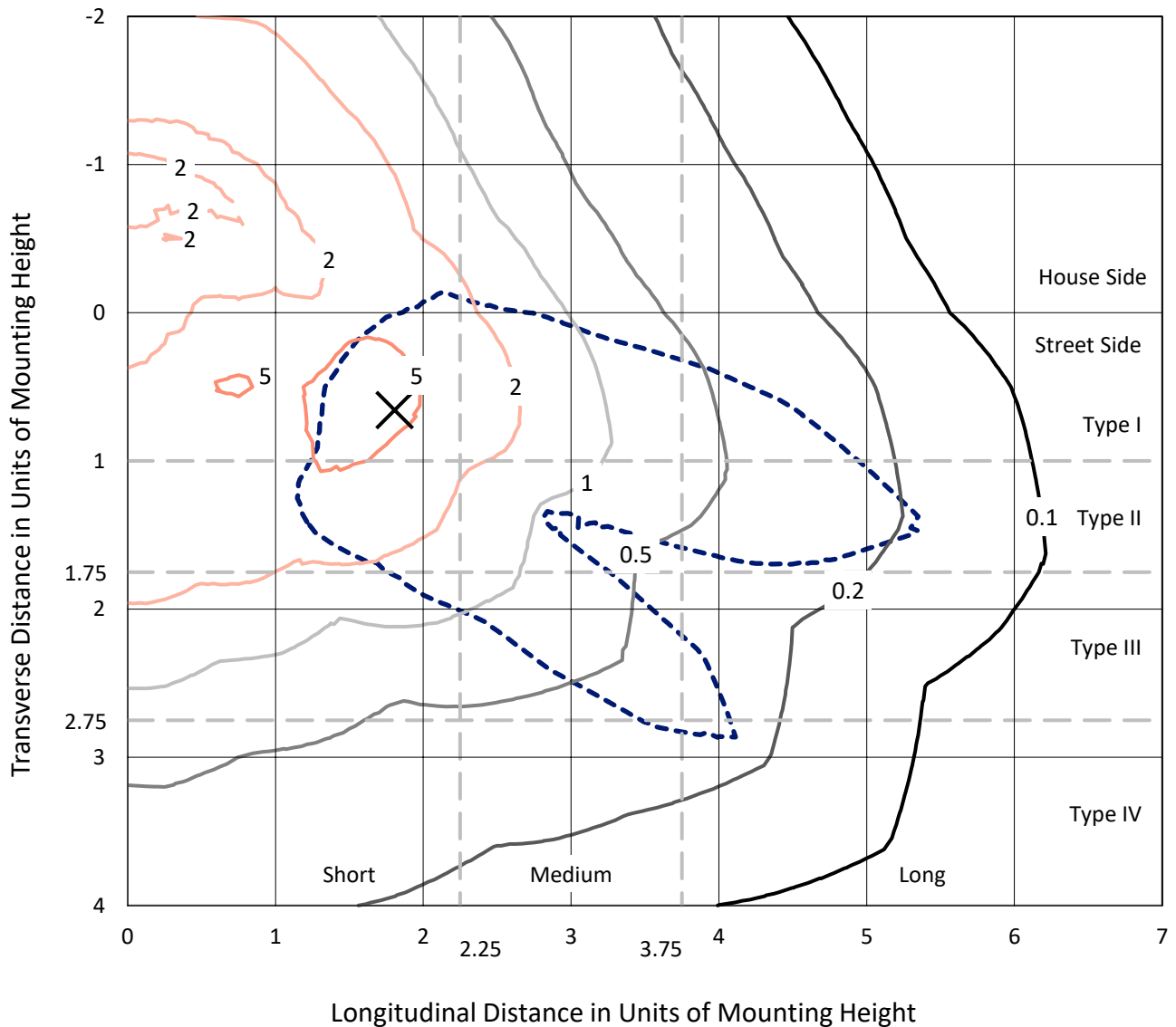
Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

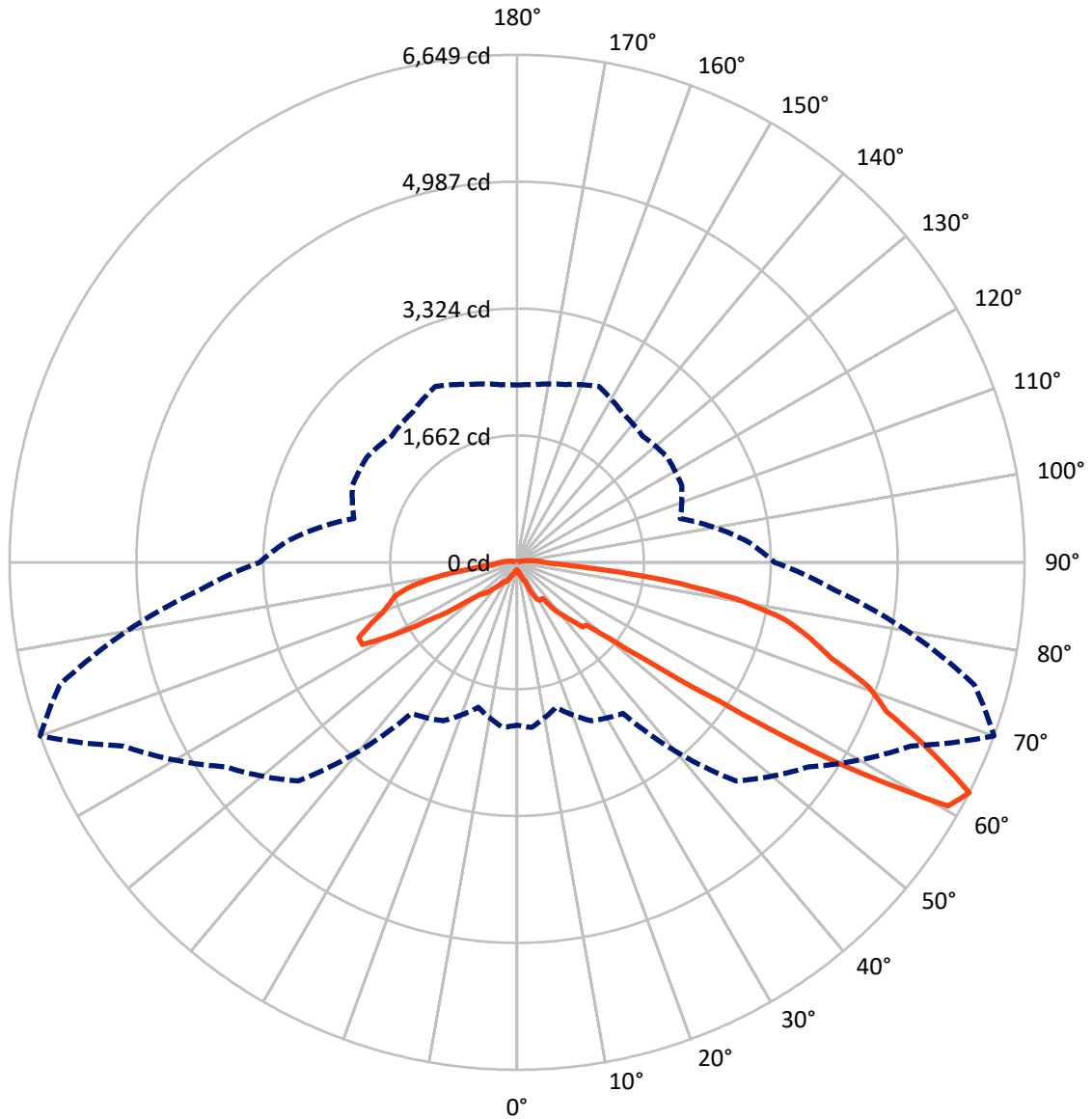
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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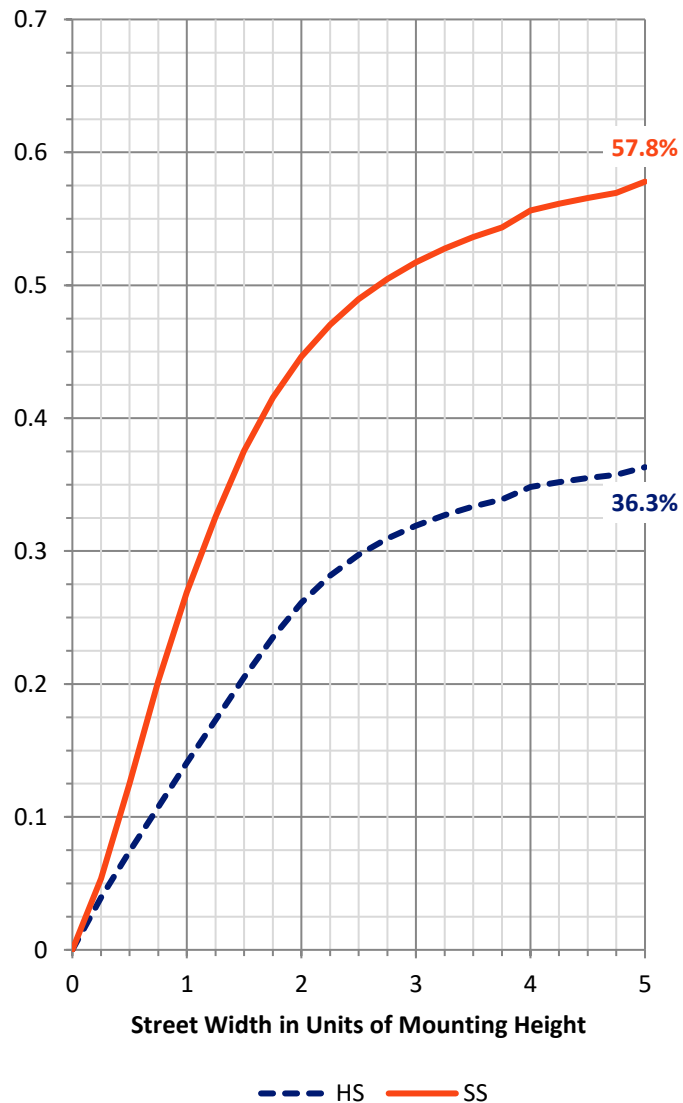
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.3	120.9	3420.2
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5315.6	166.2	5481.8
	% Fixture	59.7	1.9	61.6
Total	Lumens	8614.9	287.1	8902.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.1
10°-20°	48.5	0.5
20°-30°	150.2	1.7
30°-40°	322.1	3.6
40°-50°	603.4	6.8
50°-60°	1565.8	17.6
60°-70°	2868.2	32.2
70°-80°	2300.6	25.8
80°-90°	745.0	8.4
90°-100°	196.3	2.2
100°-110°	63.9	0.7
110°-120°	25.0	0.3
120°-130°	2.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8614.9	96.8
0°-180°	8902.0	100.0

Coefficient of Utilization



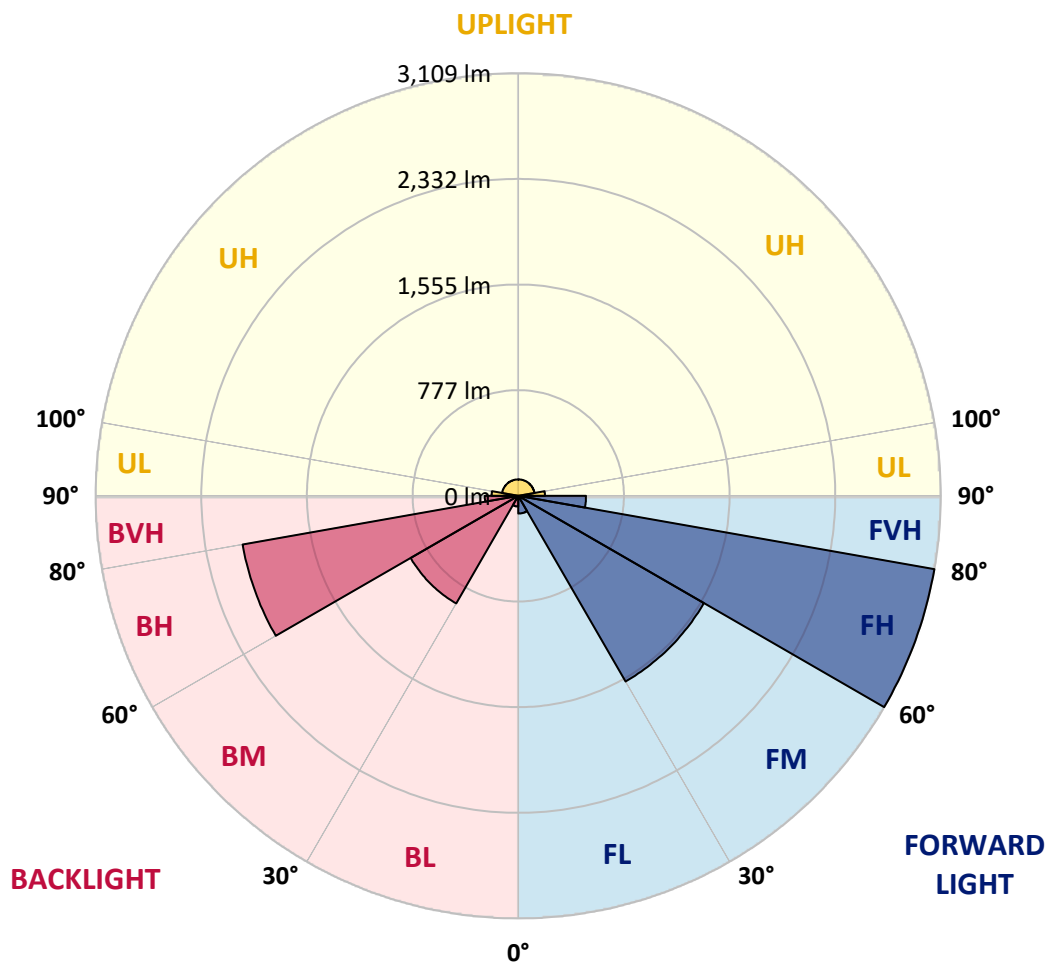
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.6	1.5			
FM (30°-60°)	1577.3	17.7			
FH (60°-80°)	3109.3	34.9			G2/5000
FVH (80°-90°)	498.4	5.6			G3/500
BL (0°-30°)	79.2	0.9	B0/110		
BM (30°-60°)	913.9	10.3	B1/1000		
BH (60°-80°)	2059.6	23.1	B3/2500		G3/2500
BVH (80°-90°)	246.6	2.8			G3/500
UL (90°-100°)	196.3	2.2		U3/500	
UH (100°-180°)	120.9	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	114.0	114.0	114.0	112.3	110.6	108.9	107.2	107.2	105.5	103.8	102.1
5°	124.2	122.5	120.8	117.4	115.7	115.7	114.0	114.0	114.0	112.3	110.6
7.5°	137.8	137.8	136.1	134.4	132.7	131.0	129.3	127.6	127.6	125.9	124.2
10°	156.6	156.6	156.6	154.9	154.9	153.2	149.8	148.1	144.7	142.9	137.8
12.5°	175.3	177.0	173.6	173.6	173.6	171.9	168.5	166.8	163.4	160.0	153.2
15°	194.0	192.3	190.6	188.9	192.3	192.3	190.6	190.6	183.8	178.7	166.8
17.5°	211.0	211.0	212.7	212.7	217.8	216.1	216.1	214.4	211.0	202.5	187.2
20°	238.2	240.0	240.0	240.0	257.0	263.8	265.5	267.2	262.1	245.1	214.4
22.5°	265.5	267.2	279.1	275.7	275.7	275.7	292.7	284.2	262.1	241.7	224.6
25°	359.1	364.2	367.6	379.5	393.1	430.6	490.1	471.4	437.4	367.6	309.7
27.5°	449.3	456.1	517.3	602.4	614.3	570.1	612.6	556.5	539.5	468.0	420.3
30°	490.1	502.0	607.5	665.4	685.8	628.0	689.2	582.0	576.9	525.8	485.0
32.5°	500.3	508.8	624.6	631.4	636.5	629.7	721.6	590.5	578.6	527.6	468.0
35°	485.0	495.2	573.5	534.4	536.1	656.9	828.8	636.5	582.0	493.5	427.1
37.5°	597.3	597.3	663.7	673.9	718.2	864.5	1085.7	840.7	779.4	643.3	561.6
40°	680.7	689.2	794.7	833.9	840.7	964.9	1359.7	985.3	898.5	719.9	656.9
42.5°	793.0	791.3	888.3	915.6	934.3	980.2	1390.4	1133.4	1031.3	815.2	767.5
45°	811.7	839.0	927.5	896.8	920.7	1038.1	1451.6	1342.7	1206.6	995.5	896.8
47.5°	736.9	774.3	953.0	927.5	832.2	886.6	1164.0	1378.4	1228.7	1022.8	953.0
50°	794.7	815.2	903.6	886.6	759.0	942.8	1278.0	1727.3	1560.5	1216.8	1038.1
52.5°	1027.9	1072.1	1087.4	1153.8	1092.5	1410.8	1788.6	2188.5	2166.4	1761.3	1369.9
55°	1320.6	1385.2	1453.3	1705.2	1740.9	2215.7	2496.5	2923.7	3189.1	2785.8	2101.7
57.5°	1637.1	1729.0	1706.9	2072.8	2128.9	3001.9	3260.6	4261.3	4970.9	4422.9	3078.5
60°	1943.4	2004.7	1880.5	2202.1	2309.3	3779.7	4159.1	5549.5	6483.8	5900.1	3791.6
62.5°	2132.3	2171.5	1967.3	2290.6	2416.5	4050.2	4668.0	5694.2	6648.9	6204.7	4177.9
65°	2130.6	2120.4	1887.3	2168.1	2151.0	3738.8	4511.4	4785.4	5939.2	5864.3	4227.2
67.5°	2047.2	2050.6	1805.6	2028.5	1958.7	3296.3	4179.6	4048.5	5221.1	5321.5	4111.5
70°	1967.3	2008.1	1775.0	1969.0	1936.6	3170.4	4034.9	3643.5	4884.1	5074.7	3989.0
72.5°	1854.9	1894.1	1674.6	1844.7	1856.6	2918.6	3788.2	3180.6	4307.2	4536.9	3575.4
75°	1853.2	1902.6	1696.7	1846.4	1865.2	2775.6	3818.8	3020.7	3961.7	4269.8	3337.2
77.5°	1747.7	1792.0	1601.4	1740.9	1793.7	2511.8	3643.5	2821.6	3578.8	3924.3	3025.8
80°	1404.0	1463.5	1307.0	1398.9	1427.8	1883.9	2922.0	2311.0	2911.7	3257.2	2472.7
82.5°	959.8	1014.3	910.5	978.5	1016.0	1235.5	2020.0	1664.3	1979.2	2190.2	1548.6
85°	554.8	619.4	558.2	549.7	568.4	651.8	1087.4	884.9	920.7	968.3	687.5
87.5°	348.9	359.1	328.4	330.1	333.5	357.4	495.2	394.8	435.7	493.5	416.9
90°	277.4	287.6	265.5	267.2	262.1	284.2	371.0	301.2	335.3	386.3	330.1
92.5°	240.0	246.8	231.4	234.8	231.4	248.5	309.7	248.5	275.7	316.5	270.6
95°	204.2	209.3	200.8	202.5	192.3	202.5	241.7	188.9	209.3	238.2	202.5
97.5°	163.4	168.5	163.4	163.4	153.2	158.3	185.5	146.4	160.0	178.7	153.2
100°	129.3	131.0	129.3	127.6	119.1	119.1	129.3	105.5	110.6	122.5	105.5
102.5°	98.7	100.4	98.7	97.0	86.8	81.7	81.7	68.1	71.5	74.9	66.4
105°	78.3	80.0	78.3	74.9	66.4	61.3	59.6	49.4	49.4	51.1	45.9
107.5°	64.7	64.7	64.7	61.3	56.2	49.4	44.2	35.7	35.7	37.4	35.7
110°	52.8	52.8	51.1	49.4	44.2	39.1	34.0	28.9	28.9	28.9	27.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	44.2	44.2	42.5	40.8	35.7	30.6	27.2	23.8	23.8	23.8	22.1
115°	37.4	37.4	35.7	34.0	30.6	25.5	22.1	18.7	18.7	18.7	18.7
117.5°	32.3	32.3	30.6	28.9	25.5	22.1	18.7	15.3	15.3	15.3	15.3
120°	28.9	27.2	25.5	23.8	20.4	18.7	15.3	13.6	13.6	13.6	11.9
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	102.1	102.1	100.4	100.4	100.4	98.7	98.7	100.4	100.4	100.4	100.4
5°	108.9	107.2	103.8	100.4	98.7	97.0	95.3	95.3	98.7	98.7	98.7
7.5°	122.5	120.8	115.7	112.3	108.9	105.5	103.8	102.1	103.8	105.5	105.5
10°	136.1	134.4	127.6	122.5	120.8	117.4	115.7	114.0	115.7	115.7	115.7
12.5°	149.8	146.4	141.2	134.4	131.0	129.3	127.6	125.9	125.9	125.9	125.9
15°	161.7	156.6	151.5	146.4	142.9	139.5	137.8	136.1	137.8	139.5	139.5
17.5°	180.4	175.3	163.4	154.9	153.2	149.8	148.1	148.1	149.8	151.5	151.5
20°	200.8	190.6	177.0	168.5	166.8	161.7	160.0	160.0	161.7	163.4	163.4
22.5°	217.8	211.0	190.6	178.7	177.0	175.3	177.0	177.0	178.7	180.4	180.4
25°	277.4	250.2	221.2	212.7	211.0	207.6	204.2	202.5	204.2	209.3	211.0
27.5°	374.4	325.0	270.6	251.9	251.9	255.3	262.1	265.5	258.7	255.3	257.0
30°	439.1	372.7	294.4	277.4	280.8	297.8	313.1	323.3	316.5	311.4	313.1
32.5°	422.0	360.8	304.6	301.2	311.4	325.0	333.5	338.7	352.3	357.4	364.2
35°	384.6	338.7	308.0	321.6	328.4	328.4	328.4	328.4	354.0	377.8	384.6
37.5°	469.7	391.4	365.9	371.0	365.9	360.8	365.9	379.5	401.6	420.3	425.4
40°	551.4	452.7	410.1	406.7	405.0	422.0	452.7	476.5	483.3	466.3	469.7
42.5°	641.6	512.2	457.8	462.9	476.5	503.7	537.8	537.8	537.8	522.4	527.6
45°	726.7	582.0	549.7	563.3	563.3	576.9	595.6	583.7	599.0	605.8	614.3
47.5°	827.1	675.6	604.1	592.2	593.9	621.1	628.0	622.9	633.1	621.1	621.1
50°	857.7	690.9	634.8	680.7	680.7	650.1	624.6	628.0	656.9	689.2	696.0
52.5°	1090.8	856.0	804.9	852.6	873.0	820.3	820.3	827.1	833.9	857.7	864.5
55°	1632.0	1220.2	1067.0	1177.6	1192.9	1225.3	1313.8	1300.2	1221.9	1182.7	1179.3
57.5°	2440.4	1810.7	1329.1	1485.7	1584.4	1717.1	1783.5	1744.3	1638.8	1603.1	1563.9
60°	3119.4	2479.5	1722.2	1994.5	2142.5	2164.7	2140.8	2144.2	2064.3	2089.8	2079.6
62.5°	3371.2	3042.8	2214.0	2379.1	2401.2	2333.1	2396.1	2540.8	2411.4	2334.8	2322.9
65°	3446.1	3252.1	2351.9	2244.6	2224.2	2212.3	2460.8	2702.4	2413.1	2234.4	2232.7
67.5°	3371.2	3037.7	2176.6	1999.6	2047.2	2144.2	2467.6	2557.8	2285.5	2088.1	2074.5
70°	3274.2	2692.2	1958.7	1805.6	1916.2	2057.5	2263.4	2227.6	2120.4	1945.1	1936.6
72.5°	2922.0	2333.1	1819.2	1691.6	1817.5	1858.3	1960.4	1945.1	1975.8	1865.2	1860.0
75°	2615.6	2142.5	1735.8	1586.1	1647.3	1640.5	1722.2	1740.9	1827.7	1780.1	1761.3
77.5°	2256.6	1863.4	1529.9	1356.3	1380.1	1378.4	1417.6	1429.5	1490.8	1494.2	1473.7
80°	1766.4	1460.1	1194.6	1021.1	1024.5	993.8	998.9	997.2	1009.2	1022.8	1004.0
82.5°	1014.3	815.2	677.3	566.7	542.9	502.0	493.5	496.9	491.8	488.4	488.4
85°	496.9	386.3	355.7	318.2	304.6	294.4	299.5	309.7	314.8	304.6	299.5
87.5°	335.3	289.3	275.7	260.4	253.6	243.4	250.2	258.7	265.5	257.0	255.3
90°	265.5	229.7	226.3	222.9	217.8	209.3	216.1	226.3	231.4	224.6	221.2
92.5°	214.4	185.5	185.5	183.8	178.7	171.9	180.4	188.9	194.0	188.9	187.2
95°	165.1	142.9	148.1	144.7	139.5	137.8	142.9	149.8	153.2	149.8	149.8
97.5°	127.6	112.3	117.4	115.7	108.9	107.2	110.6	115.7	119.1	115.7	114.0
100°	86.8	80.0	86.8	86.8	80.0	76.6	80.0	85.1	86.8	86.8	85.1
102.5°	57.9	54.5	63.0	64.7	61.3	57.9	59.6	63.0	64.7	64.7	64.7
105°	40.8	40.8	49.4	51.1	47.6	44.2	47.6	49.4	49.4	49.4	49.4
107.5°	32.3	34.0	39.1	42.5	39.1	35.7	37.4	39.1	39.1	39.1	40.8
110°	27.2	27.2	32.3	35.7	32.3	30.6	30.6	30.6	30.6	32.3	35.7



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 CATALOG NUMBER: GAT-CA6-LED-90-750-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	22.1	23.8	27.2	28.9	27.2	25.5	25.5	25.5	25.5	27.2	32.3
115°	18.7	20.4	23.8	23.8	22.1	22.1	22.1	20.4	20.4	22.1	30.6
117.5°	15.3	17.0	18.7	18.7	18.7	17.0	17.0	17.0	17.0	20.4	32.3
120°	13.6	13.6	15.3	15.3	13.6	13.6	13.6	13.6	11.9	17.0	25.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)